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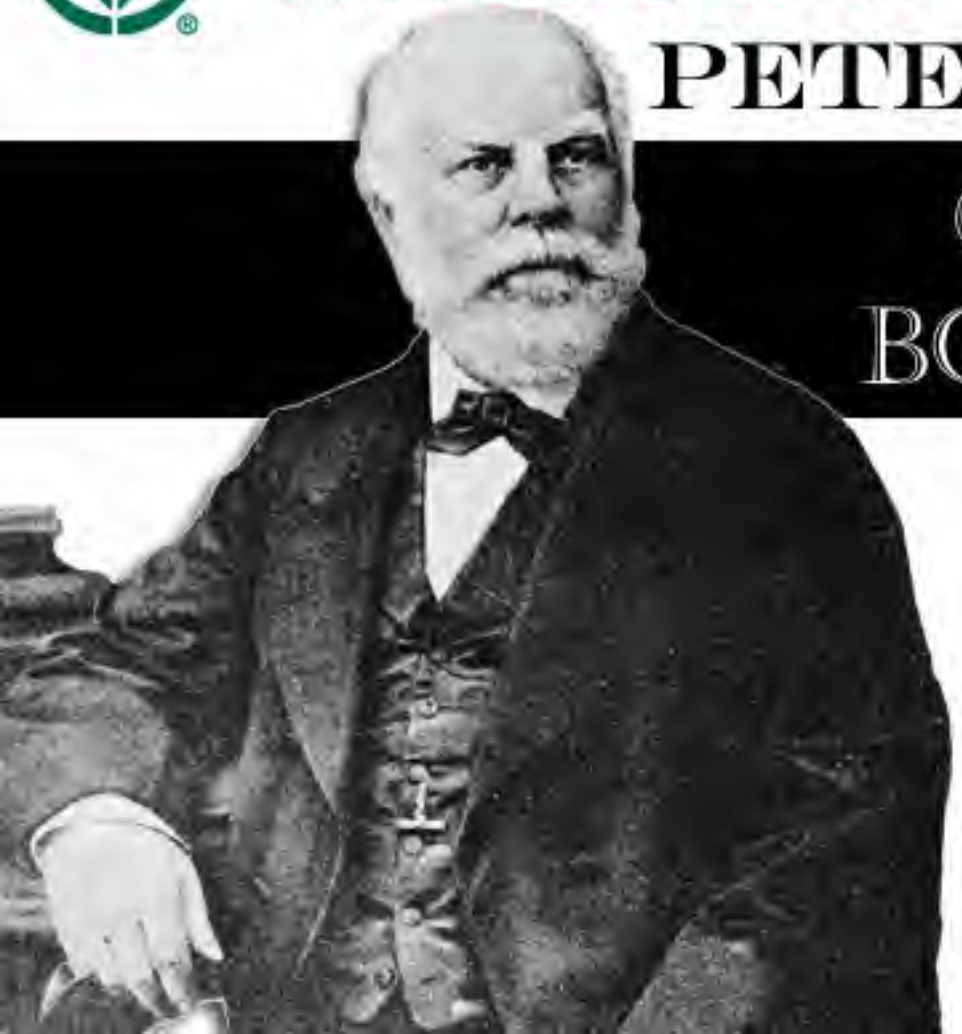

Pagination Note:
Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.

Pinus amabilis Dougl Bot. Mag. Comp. II. 152.

Picea amabilis Dougl. — Loud. Arb. II. p. 2342 Fig 2247. 2248.

Var. of Abies grandis fide. Matt Sylv III. p. 135

see Newberry Pac. R R VI. Bot p. 47.

— — Newberry Pac R R. VI Bot. p. 51. c. icon. who says no! Distant !!

Abies — Carrière p. 219

Forbes Pinet. Wob. t. 44 ic

Pinus — Endl Conif 104

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Pinus nobilis Dougl. ? Lamb Pin. vol III. t. 22 ?
Hook Fl. Bor Am. II. p. 162.

Picea — Lond. Arb. IV. p. 2342. fig 2249. 2250.
Lindley — Knights Cyclop. 1. p. 9 (vol 5)
Abies — Nutt Syl. III. 136 t. 117.
Picea — Newberry — Pac. R R. VI. Bot p. 49 & it.
Pinus — Bot Calif. 90.

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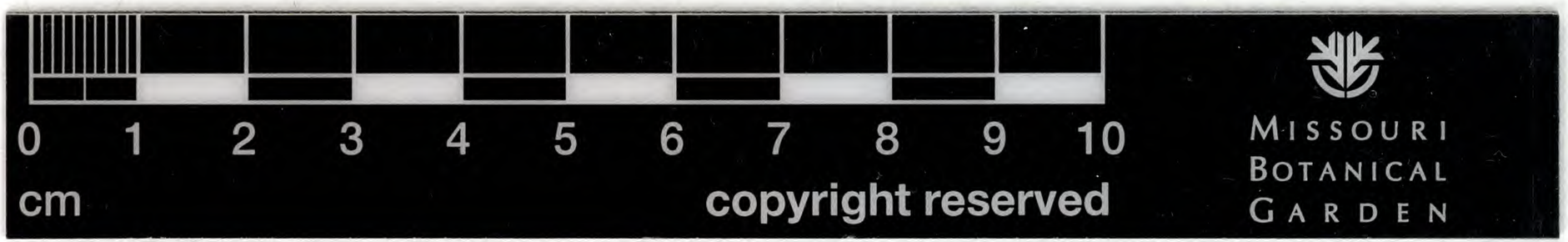

Pinus Fraseri Pursh II. 639 Pennsylv.

[var of P. Balsamea, Nutt. gen II. 223. no!]

Abies — Link = Penny Cyc. N 5 Link Linn 15. 531 (1841)
Chapm. 434 High Mt. North Carol.

— — Nutt Sylv. III. 139 t. 119. Descriptio defectiva

— — Gray Man. 423

Pinea — Loud. Arb. IV. 2340. t. 2243. 2244 (1838)

Pinus — Lamb Pin ed 2. I. t. 42

— — Endl. Conif 91

12933

Syn Abies balsamifera Mich Flor, not Mich Sylv.

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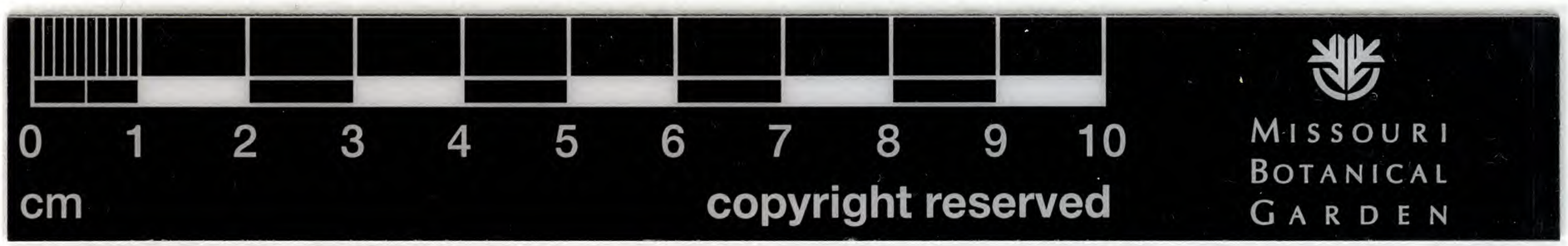

Pinus venusta Dougl. Comp. Bot Mag. 2. p. 152

= Abies bracteata fide Hott Syl. 137 et

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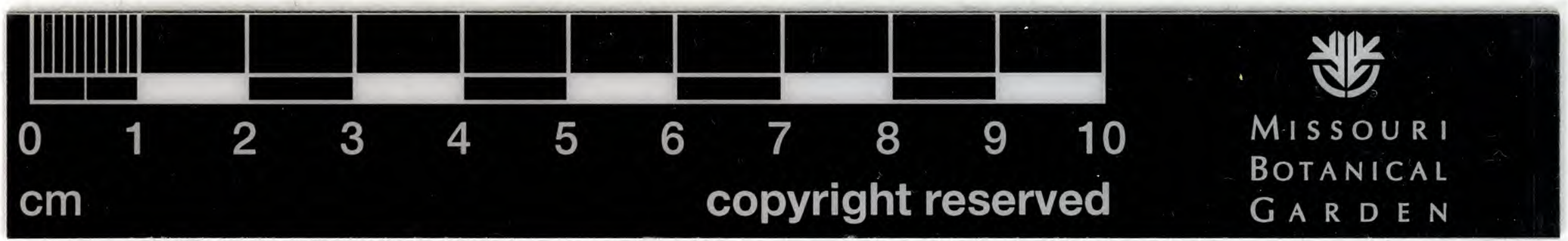

Pinus Lasiocarpa Hook Fl. Bor Am II. p. 163.

Abies. — — Nutt. Sylv. III. 138 ~~t. 119~~

— — — Lindl & Gord. Jour Hort Soc V. 210

— — — Cam. Cr 221

Pinus — — Ind. Kew. Conif. 105

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Pinus grandis Dougl. MSS in Lamb Pin II. t. 94

Picea —— Loud. Arb. IV. p. 2341. fig. 2245. 2246

Abies —— Lindl. in Penny Cycl. Nr 3. 1833.

—— —— Nutt Sylv. III. p. 134

Pinus —— Hook fl. bor Am. II. 167

Picea —— Newberry in Pac R R. VI. bot. p. 46 c. ic.

Pinus —— End Conif. 105

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Pinus balsamifera Ait — Mich. Sylv. (ed. amer. 1842) II. p. 176 t. 150

Abies ——— Mich. N. A. II. 207 ✓ (= A. Fraseri f. in Gray Man. (II ovo)

Pinus balsamea (Willd. sp. IV. 504) Lin. Sp. N. (Cod Lin. 7248)
p. 1421 (f. in Pursh)

— ——— Pursh II. 639

— ——— Ell. Sk. II. 639.

— ——— Lamb. Pin ed 2. t. 41

— ——— Hook. N. Bor. Am. II. 163.

Abies ——— Marshall Arb. Am. p. 102 1785

— ——— Gray Man. 422

Picea ——— Loud. Arb. IV. p. 2339. t. 2240-2242

Pinus ——— Pall Conif. 103

Abies ——— Mill Dict. ed 3.

— ——— Link Linnaea 15 p. 530 1841

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A. balsamifera Mich. flor = A. Fraseri (at least as to the cones)

A. balsamifera Mich Sylv. = A. balsamea

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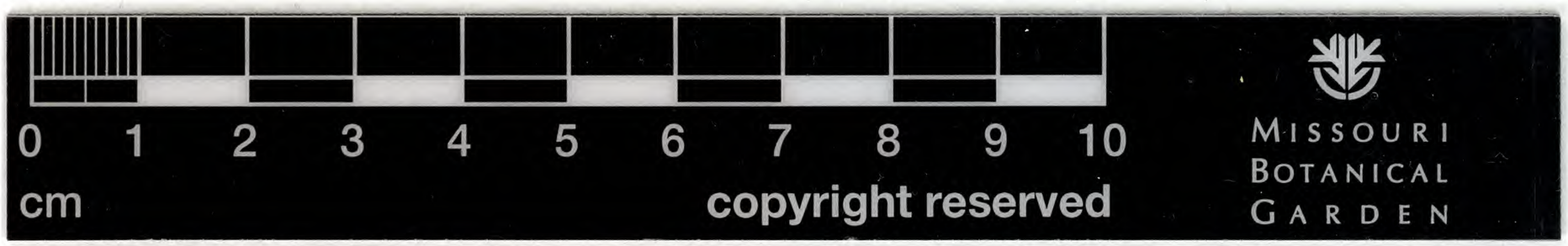


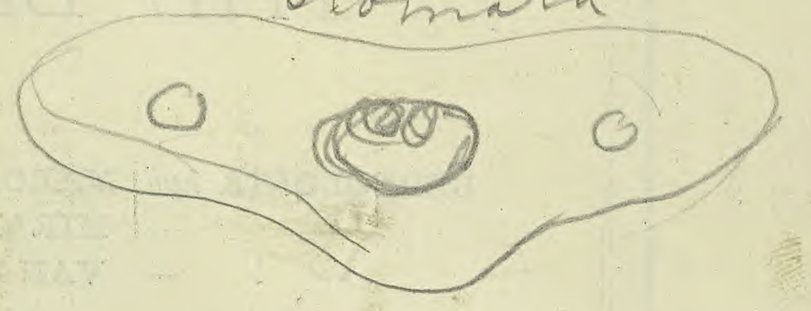
29th

Abies

Rocky Mountains

~~and light Parts of Oregon~~

stomata



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Missouri Botanical Garden
George Engelmann Papers

THE BERTOLONIAS.

		s.	d.
BERTOLONIA *hyb.* **MARCHANDI**	. . . . .	12	»
— — **MIRANDÆI.**	. . . . .	24	»
— — **VAN HOUTTE**	. . . . .	40	»

At what price will you sell the stock of your Bertolonias? Was the newly made question of MM. Veitch and Williams, when they saw here the *Bertolonia Van Houttei*, raised from seed last year in this, for once, fortunate nursery. — Before parting however with any of these plants, I intend showing them in the opening of this season in the principal exhibitions of Great-Britain and Ireland in order to let the public see and judge for themselves of the extraordinary success achieved. At the Lille, Tournay and Antwerp Exhibitions, as well as here at Ghent, it has been awarded with gold medals, while at the Brussels Show, it was crowned with a *double gold medal;* but the winter came and prevented further proceedings in showing it to the horticultural world, and now, with the commencement of the spring, two plants have been sent to London for exhibition, one to the Regent's Park Garden, the other to the South Kensington Horticultural Society, and we shall hear next week, from the reporters of the London Horticultural press, what impresssion the plant has made.

The BERTOLONIA VAN HOUTTEI remained twenty days at Lille (journey included) and the very same plant was afterwards shown at Brussels, Tournay and Ghent, without having suffered the least, during such a long circulation. — The

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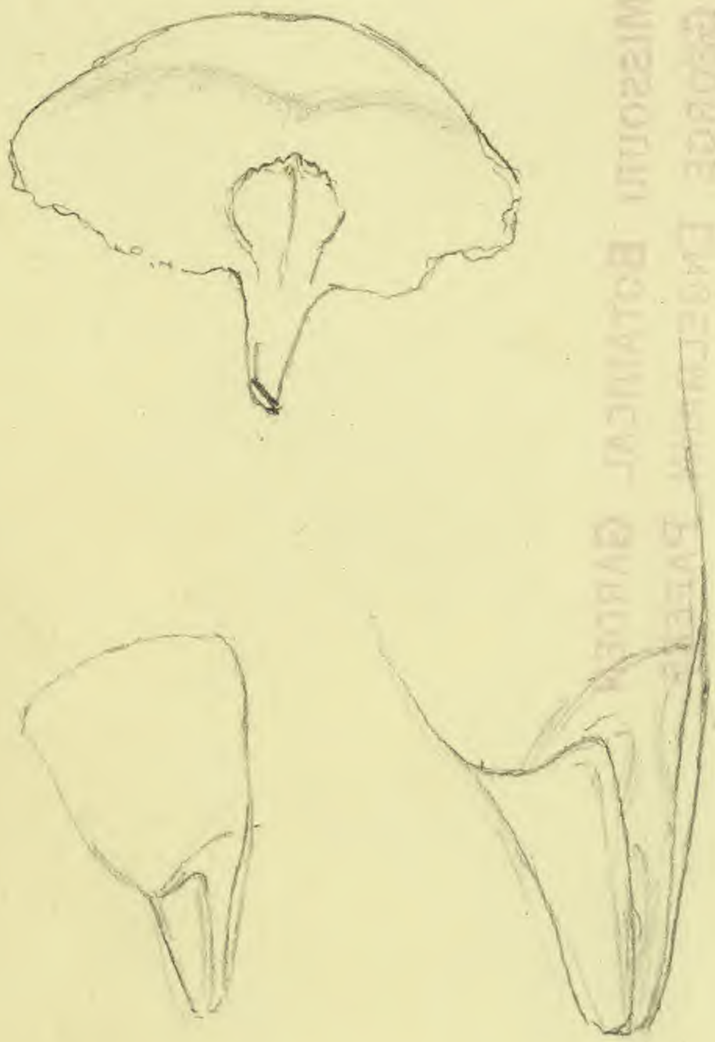
"Abies amabilis" Gray Bot. Cal. Sept 30 1870
p. 333

Wasatch Mtns Sereno Watson 1868

Cascades ?



scale 31 : 16 mm = 4 : 2

seed 12 : 6 mm

= twice as long as wide

x 2

"bract often long cuspidate"
Watson

folia incurva supra carinata convolores

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ALEX. LEITCH,
APOTHECARY & PHARMACEUTIST,
Corner 4th & Olive Streets, St. Louis.

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A. occidentalis Oregon

Lines of stomata in each band

4–6 Lyall, East side of Cascades, Aug 1865

5–8–9 Hall, Mt Hood

4–6 Douglas, Columbia River

4–5 Lyall Columbia Valley, 1860 (pouched but glossy)

5 — Wilkes Expl Expd.

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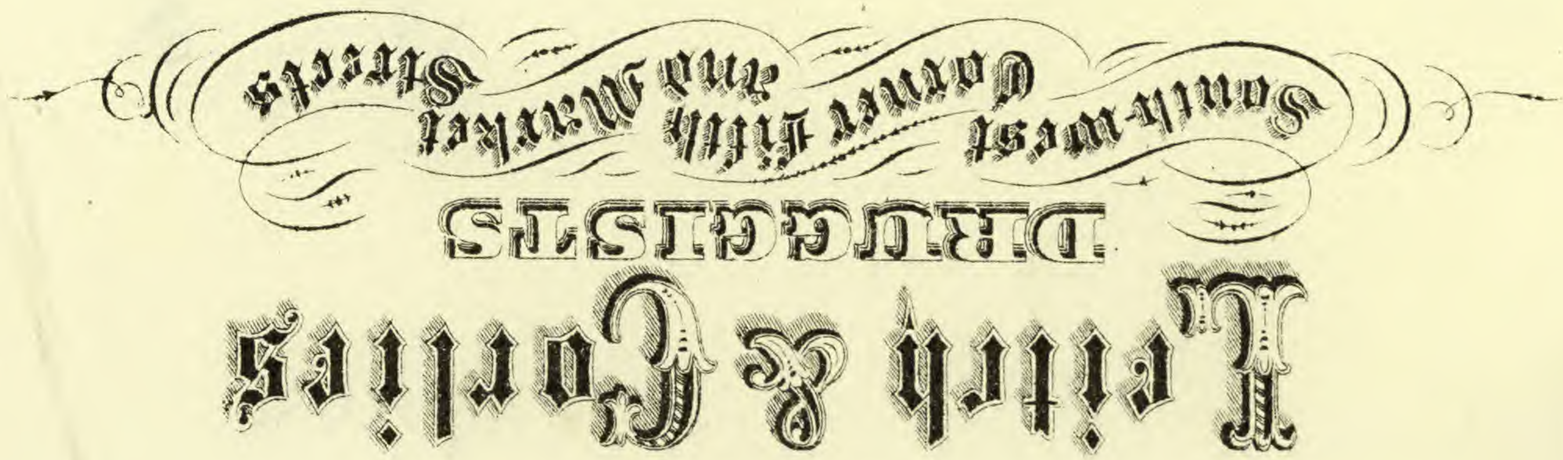

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cm 0 1 2 3 4 5 6 7 8 9 10
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" Abies grandis "

Wasatch Mountains

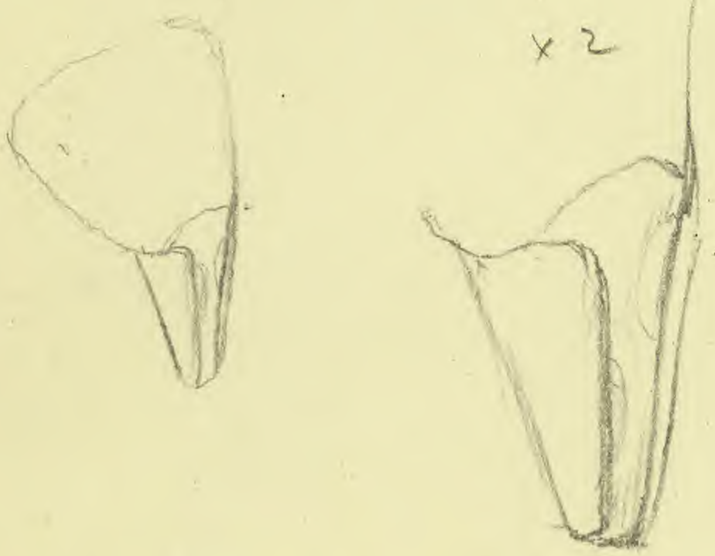
Cowley ? S. Watson 1868

Oct 6 4 1870

30: 16

with the light of scale

(without stage) 3/4 : 2



x 2

seed 11 : 6

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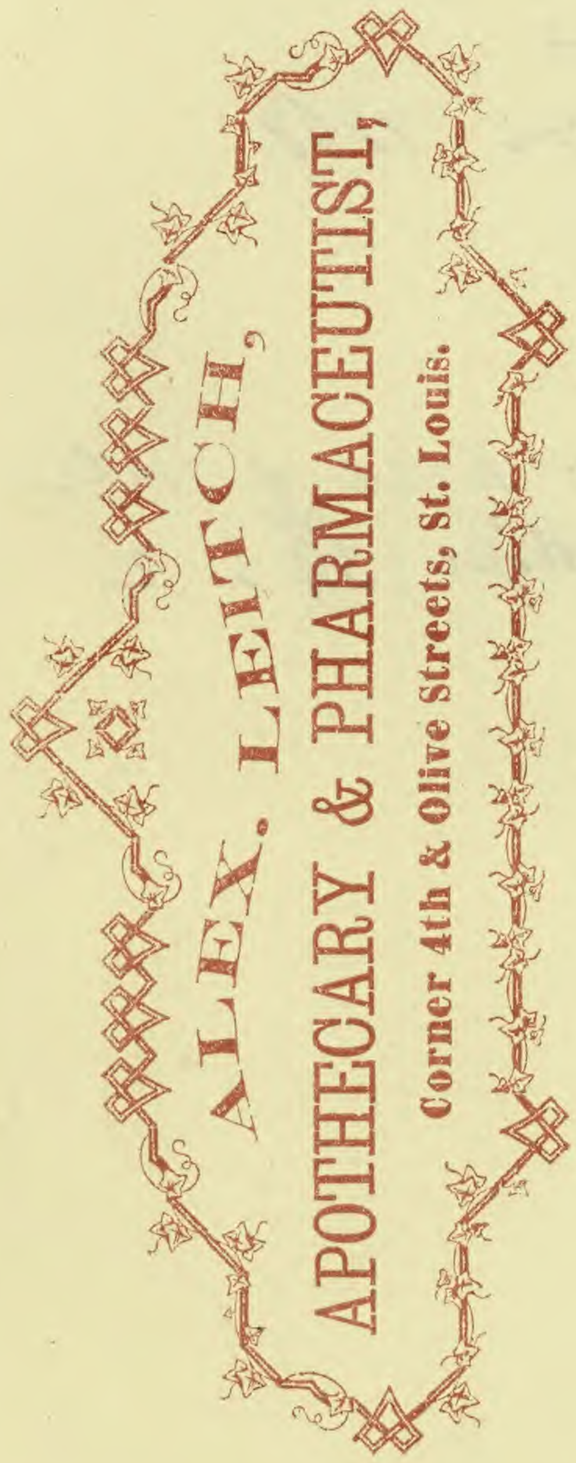

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Oct 20 1877

Have examined Torrey Newberry's Plants grads Cascades 1855 — corresponds with his figure — Pl. 96.

All true grads have rather small, but very broad scales, nearly twice as broad as high — bract very short, obtuse or almost 2 edged emarginate, with a short point.

Leaves even on fertile branch emarginate very rarely obtuse — leaves on fertile branches not distinct from sterile ones.

Grads & Convolvus have both scattered hypoderm cells on upper side & a few cells on keel but they seem distinguished by the cells on both edges grads has few, not more than on upper side Convolvus has them marked on edges, sometimes very much so

12942

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CALYPTRION AUBLETII. — 8 s.

		s.	d.
t	**Cecropia** palmata	3	3
or	**Centradenia** floribunda	„	10
„	— grandifolia	„	10
„	— rosea	„	10
t	**Centropogon** Lucyanus	1	8
or	**Cephaelis** Ipecacuanha	2	6
t	**Ceropegia** Gardneriana	2	6
„	— Saundersi	4	„
„	— stapeliæformis (FLORE, II, june 4)	1	8
e	5. **Cinchona** officinalis (*true*)	2	6
„	6. — succi-rubra	1	8
	A very fine plant with large foliage.		
or	**Cinnamomum** aromaticum	4	„
or,g	**Cissus** albo-nitens	1	8
„	— amazonica	1	8
„	— argentea	1	8
„	— discolor (FLORE, VIII, 149)	1	8
„	— Lindeni	1	8

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COCHLIOSTEMA JACOBIANUM. — 4 to 40 s.

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Abies subalpina

subalpina

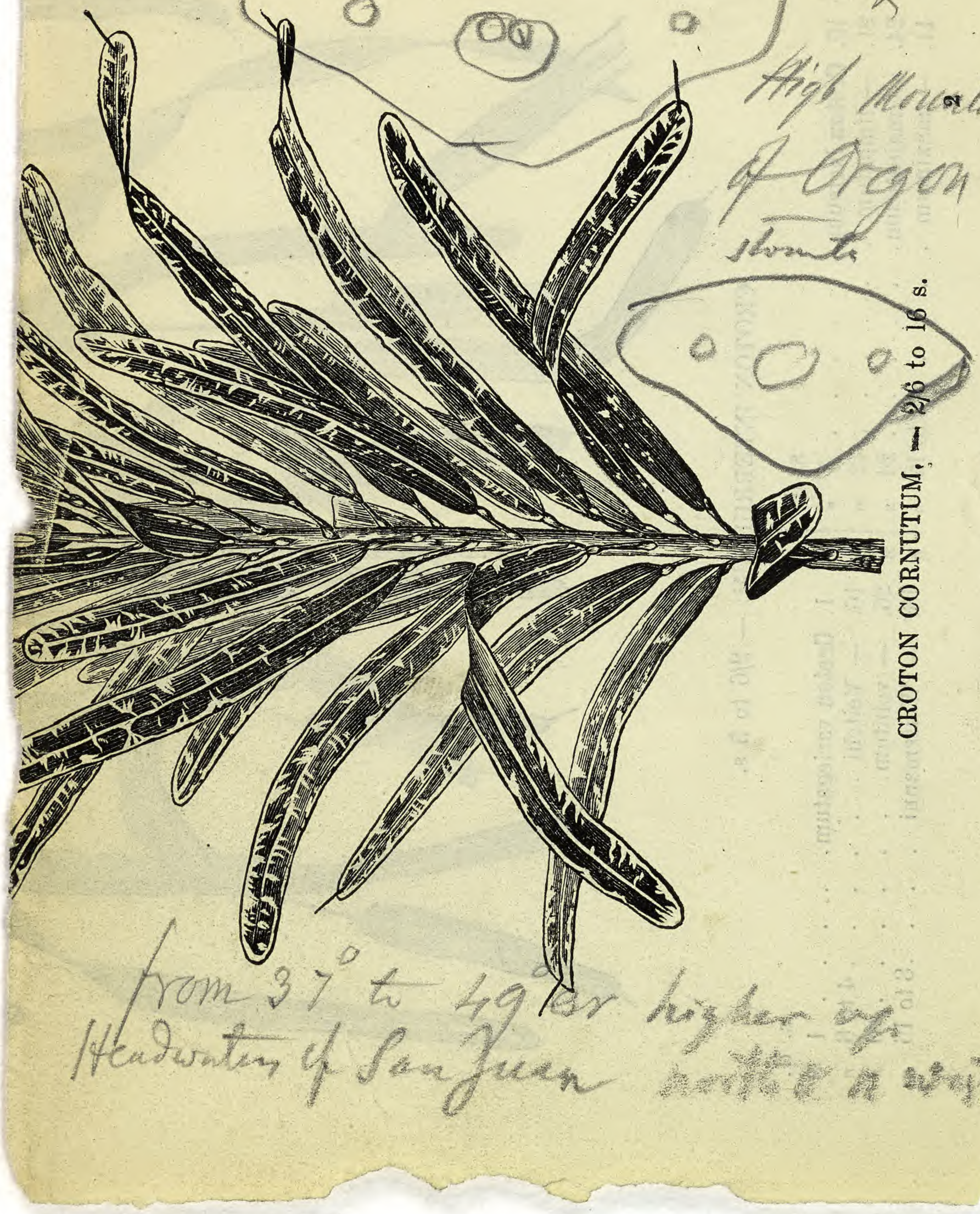
Cascade Rocky Mountains

stout

&

High Mountains of Oregon

stout



CROTON CORNUTUM. — 2/6 to 10 s.

from 37° to 49° or higher in the Headwaters of San Juan

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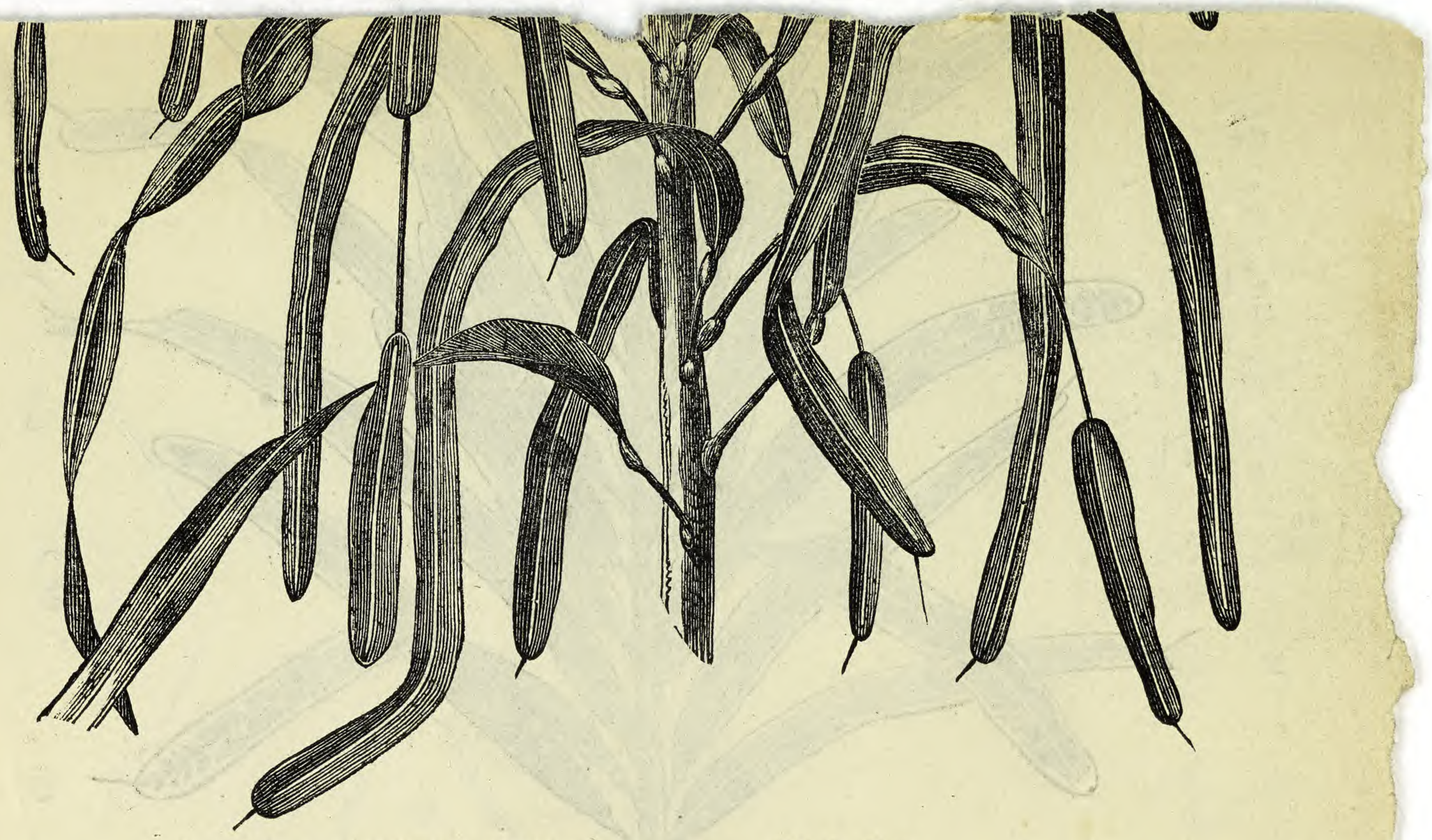

CROTON INTERRUPTUM. — 2/6 to 5 s.

			s. d.				s. d.
or	19.	**Croton** lacteum	5 „	*or*	1.	**Croton** variegatum	1 8
„	21.	— limbatum	12 „	„	16.	— Veitchi	4 to 8 „
„	24.	— majesticum	24 „	„	26.	— volutum	20 „
„	11.	— maximum	2/6 to 12 „	„	18.	— Weissmanni	8 to 16 „

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12945

946

Var fallax

Ducts of occidentalis

Leaves more like crocodes

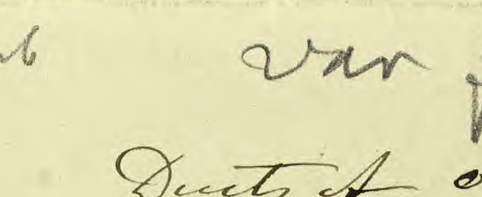
Siler

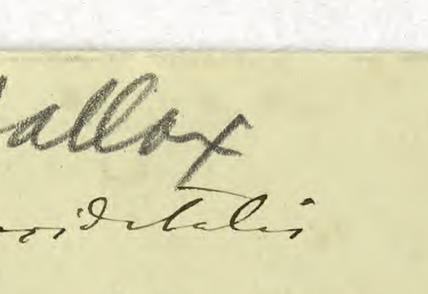
Watson, Wrotham

Bract 202 x 211

1845

Newberry





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Abies Gordoniana Carr. Conif ed 2. 98

= grandis Hunt Comp. 114 p. 93

from Van Couver Island

12946

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Resinosa ghoon

Fremonti 202 & 211

& Watsoni " amabilis

to be grandiflora Watts

Nol Corrolor

Edam Mendocino Dol

Shasta Jeffry

12947

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and vineyards creep along the ancient terraces. In the spring the hills and valleys are covered with thin grass, and aromatic shrubs which clothe more or less almost the whole of Syria and Arabia. But they also glow with what is peculiar to Palestine, a profusion of wild flowers, Daisies, and a white flower called the Star of Bethlehem, with a blaze of wild flowers of all kinds, chiefly Anemones, wild Tulips, and Poppies. Of all the ordinary aspects of the country, this blaze of scarlet color is, perhaps, the most peculiar, and to those who first enter the Holy Land, no wonder it has suggested the tempting and significant name of "the Saviour's blood-drops." * * * The "hill country," as it is called, of "Juda," in earlier, or "Judea" in later times, is part of Palestine which best exemplifies its characteristic scenery. The rounded hills and broad valleys, the scanty vegetation, the villages and fortresses—sometimes standing more frequently in ruins—on the hill tops, the wells in every valley, the vestiges of terraces, whether for corn or wine. * * * Here, more than elsewhere, are to be seen on the sides of the hills the vineyards marked by their watch-towers and walls, seated on their ancient terraces, the earliest and latest symbol of Judah. The elevation of the hills and table lands of Judah is the true climate of the Vine.—*Stanley.*

56½ feet in circumference, and supposed to have existed at the commencement of the Christian era.

QUERIES.

A ROSE BOOK.—An inquirer asks, "What English work is that called 'The Rose Book,' quoted with so much approbation in English magazines?" He probably refers to Paul's Shilling Book on Roses—noticed some time since in our magazine.

PRIVATE REPLIES.—The Editor again desires that he be not *bothered* with requests for replies by *letter* to correspondence suited to the columns of the *Gardener's Monthly*. He is willing to work for the "public," but to do the same thing for the "private" is not in his original agreement, and moreover he is not able to do so much.

Also will correspondents please note, that we have to send the reading matter to press nearly a month before its appearance, in order that it may be printed, bound, addressed and posted, before the following 1st of the month. Their inquiries therefore have often to lie over longer than they like.

PLANTS FOR SALE.—*J. W., Fall River, Mass.,*

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BOOK ON NURSERY WORK.—A Kentucky correspondent says: "Will you please name some works suitable for a beginner in a general nursery business?"

[Meehan's Ornamental Trees, Fuller's Forest Tree Culturist, and a set of the volumes of the *Gardener's Monthly*, are all we know suited to America. In fruit tree culture, Thomas or Barry is essential.—ED. G. M.]

GARDENING IN CALIFORNIA.—*J. F., Hoboken, N. J.*, writes: "Would you please state through the columns of the *Monthly*, if gardening in California in general is better than in the east for young experienced gardeners, or what branch of gardening would pay best there? Any one, stating some of his experience, will oblige a constant reader of the *Monthly*."

DEUIL DE PAUL FOUNTAINE ROSE.—Mr. Teas fears people will think he is the author of the blunder we referred to in our December number.

[illegible] Elliot."

OBITUARY.

HON. M. L. DUNLAP.—Too late for our last month's issue, our weekly cotemporaries, which have so universally spoken of him in terms befitting his worth and honorable career as a member of the editorial fraternity, have made the fact of Mr. Dunlap's death, well known to our readers. The writer of this, who has been an intimate correspondent for near twenty years, as well as a traveling companion over many a mile of this great country, may be permitted, though so late in the day, to place on record his estimate of his many virtues, as a man, and the loss to honorable agricultural journals. He died at his home at Champaign, Illinois, on the 14th of February, in the 61st year of his age.

PASCHALL MORRIS.—Amongst the deaths of the month we find the name of this distinguished gentleman, of heart disease, in the 62d

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Balsameae

Dec 21 77

	Cones			Scales		Seeds	
	length	width	width	width	height	length	length wing
Cones							
Fraseri	2–2½	1 inch		15–18 mm	8–10 mm	5–6 mm	5–6 5–6
balsamea				12–15 mm	8–11 mm	5–6 mm	7–9 5–8
subalpina	2–3½	1–1¼		16–20 mm	13–16 mm	6–8	9–14 7–9
Fraseri		average		16	9	6	6 6
balsamea				14	10	5	8 6
subalpina				18	15	7	12 8

width height

2–1 Fr scales a little more than half as high as wide

4–3 bal, " about ¾ as high as wide

5–4 subalp " " 4/5 " " "

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Geo. B. Frese

DRUGGIST & PHARMACIST

NEAR 3005 OLIVE ST. GARRISON AVE.

ST. LOUIS, MO.

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GEORGE ENGELMANN PAPERS

DR. GEO. J. ENGELMAN,

Office, 203 S. Fifth Street, Residence, 3003 Locust Street.

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(Pinus balsamea Lin.)

? Bigelow in Whip. Rep. p. 18

[= P. grandis ?]

Abies —— ? Torr. in Bot Whipp. p. 141

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12950

Pinus A. is P. flexilis with shorter and stiffer leaves and shorter cones, than my Santa Fe specimens; I shall closely examine to find whether there is a specific difference

Pinus B.

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